

Technical Data Sheet

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KV[®] 3eco

...Hightech-Insulation Material
for extreme loads

Product Specification

KV[®] 3eco is a thermosetting plastic, reinforced with glass fibres. High-class raw materials and a special manufacturing process gives KV[®] 3eco these outstanding properties.

Special Material Characteristics

- **extreme high compression strength and long term temperature resistance**
- **excellent dimensional stability**
- **no delamination**

Range of Applications

KV[®] 3eco combines an excellent insulation capability with an outstanding dimensional stability under extreme stresses and strains. KV[®] 3eco is ideally suited for applications with the highest level of requirements regarding the process safety.

Typical Applications:

- Piston- and frame insulation in heated Presses
- Pressure plate insulation in heated moulds and tools

Technical Data*:

Max. service temperature		
• long-term	250	°C
• short-term	280	°C
Compressive strength**		
• at ambient temperature	750	N/mm ²
• at 200 °C	500	N/mm ²
Coefficient of thermal conductivity		
• at ambient temperature	0.25	W/mK
• at 200 °C	0.30	W/mK
Linear coefficient X- and Y-direction Z-direction	11·10 ⁻⁶ 80·10 ⁻⁶	1/K
Flexural strength		
• at ambient temperature	550	N/mm ²
• at 200 °C	350	N/mm ²
Density	2	g/cm ³

*) Further technical details and machining recommendations upon request

**) Compressive stress at break. The possible specific compressive strength depends on the particular application.



Delivery information:

Standard thickness: 5 - 30 mm

Premium-Finish is possible:

// / 0.02 mm by nominal thickness tolerance of +/- 0.02 mm
(depending on the thickness)

Specifications are subject to alteration due to technical development. The standard values given in this data sheet are not part of any contract.